

HYUNDAI

www.hyundaipower.ca

GreenPower Inverter Series

USER MANUAL

HY 1000 si

HY 2000 si



REVIEW MANUAL CAREFULLY TO AVOID PERSONAL INJURY

HYUNDAI

Licensed by Hyundai Corporation, Korea

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PREFACE

Thank you for purchasing a Hyundai Portable Generator. Please register your product in order for us to ensure your continuous satisfaction with our product.

This manual covers the safety, operation and maintenance procedures for the HY1000SI and HY2000SI models.

All information in this publication is based on the latest product information available at the time of approval for printing.

No part of this publication may be reproduced without written permission.

If a problem should arise, please contact us by using the contact information at the end of this manual.

It is important that this manual be read and fully understood before operating the generator set. Failure to do so may cause serious injuries or equipment damage.

1.

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1. SAFETY PRECAUTIONS

1.1: SAFETY LABELS



DANGER



This symbol warns of hazards which can result in severe or lethal personal injury.



WARNING

This symbol refers to a hazardous or unsafe practice which has the potential to result in personal injury or product property damage.

CAUTION

This symbol warns of immediate hazards which will result in severe or lethal personal injury.

3.

1.2: OPERATIONS SAFETY

- Operate the generator according to instructions for safe and dependable service.
- Always perform a pre-operation check before starting the engine.
- Properly clean and maintain the equipment.
- Read the user manual carefully before operation. Otherwise, it may result in personal injuries or equipment damage.
- Never run the generator in an enclosed area, since the exhaust emits poisonous carbon monoxide gas.
- Gasoline is a highly flammable and explosive liquid. Refuel in a well ventilated area with the engine stopped.
- Be careful not to touch the exhaust system during operation because it can cause burns.
- Pay attention to the warning labels because the engine exhaust system will become heated during operation and remain hot immediately after the engine is stopped.
- When refueling the generator, keep it away from the cigarette lighter.

- rettes, open flames, smoke and/or sparks.
- Connections for standby power to a building's electrical system must be done by a qualified electrician and must comply with all applicable laws and electrical codes. Improper connections may cause serious injuries to electrical workers during power outage, and when the utility power is restored, the generator may explode or cause fires.
- Place the generator at least 3ft away from buildings or other equipment during operation.
- Run the generator on a level surface. If the generator tilts, fuel spillage may result.
- Know how to stop the generator quickly and understand operation of all the controls. Never permit anyone to operate the generator without proper instructions.
- Keep children, pets and rotating parts away from the generator during operation.
- Do not operate the generator in rain or snow.
- Do not allow any moisture to come in contact with the generator.
- Do not touch the spark plug while the generator is operating and shortly after the generator has been shut down

4.

1.3: AC SAFETY GUIDELINES

- Before connecting the generator to an electrical device or power cord:
- Make sure that everything is in right working order. Faulty devices or power cords can lead to an electrical shock.
- Turn off the generator immediately if the device begins to operate abnormally. Then disconnect the device and investigate the problem.
- Make sure that the electrical rating of the device does not exceed that of the generator. If the power level of the device is between the maximum output power and the running power of the generator, the generator should not be used for more than 30 minutes.
- The connections from the generator to the household power supply should be done by professional electrical technicians. Improper connections may lead to a fire hazard or damages to the generator set.

1.4: MAINTENANCE SAFETY

- After any maintenance is performed, wash your body immediately using soap and clean water because repeated exposure to lubricant may cause skin irritation.
- Do not clean the filter sponge with flammable fluids like

gasoline because explosion may occur.

- Turn off the generator set before performing any maintenance. Otherwise it can cause severe personal injury or death
- Allow the generator set to cool down before performing any maintenance.
- Always wear safety glasses when cleaning the generator set with air.
- Do not clean the generator set with a pressure washer because it can cause damage to the generator set.
- Before working with batteries, ventilate the area, wear safety glasses, do not smoke, and always disconnect the negative cable first and reconnect it last.
- Use rubber gloves when coming into contact with engine oil.
- Always stop the generator set before removing the oil filler cap.
- Only qualified maintenance personnel with knowledge of fuels, electricity, and machinery hazards should perform maintenance procedures.

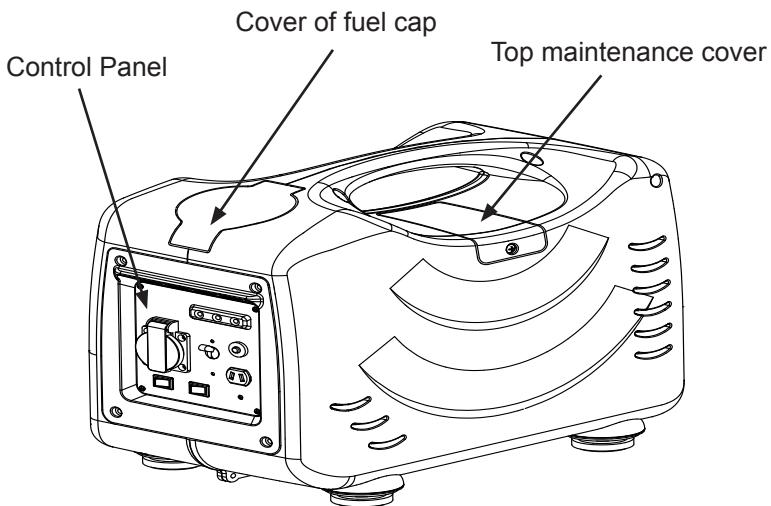
1.5: OTHER SAFETY HAZARDS

5.

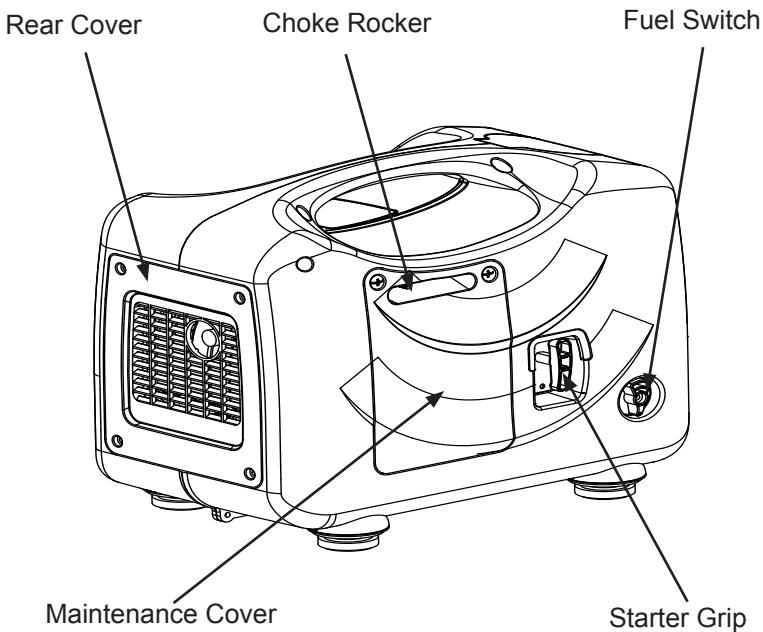
- To avoid breathing in poisonous carbon monoxide from the exhaust gases, adequate ventilation should be provided if the generator set is running in a partially enclosed space.
- If the generator set is stored outdoors, check all the electrical components on the control panel before each use. Moisture can damage the generator and can lead to an electric shock.

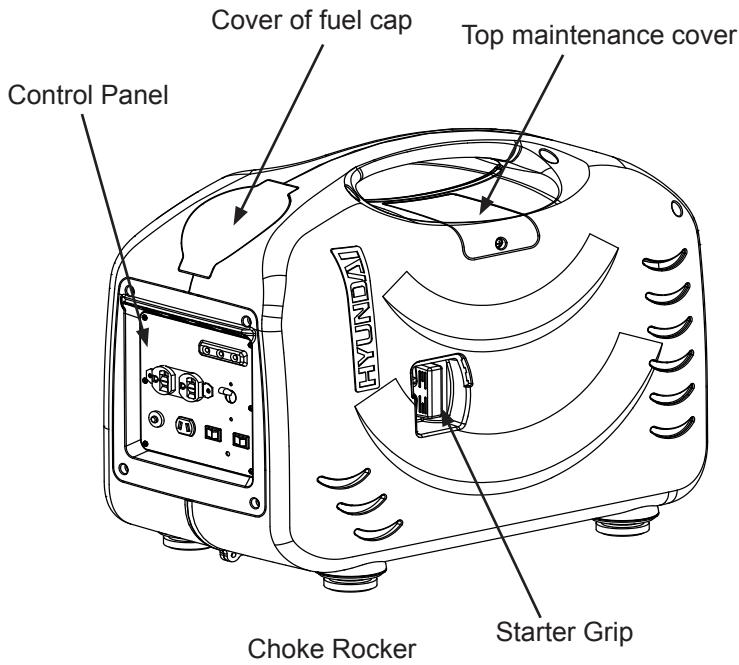
2. IDENTIFICATION OF COMPONENTS

For HY1000Si

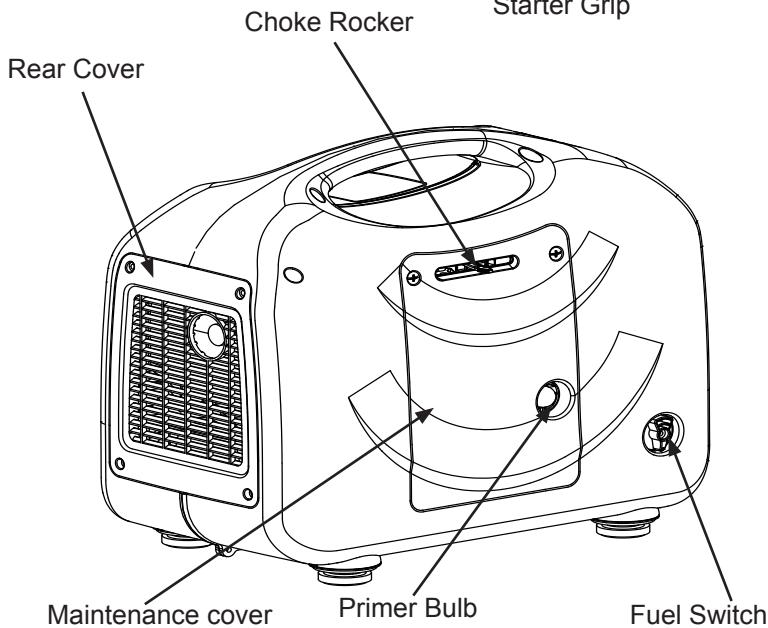


6.



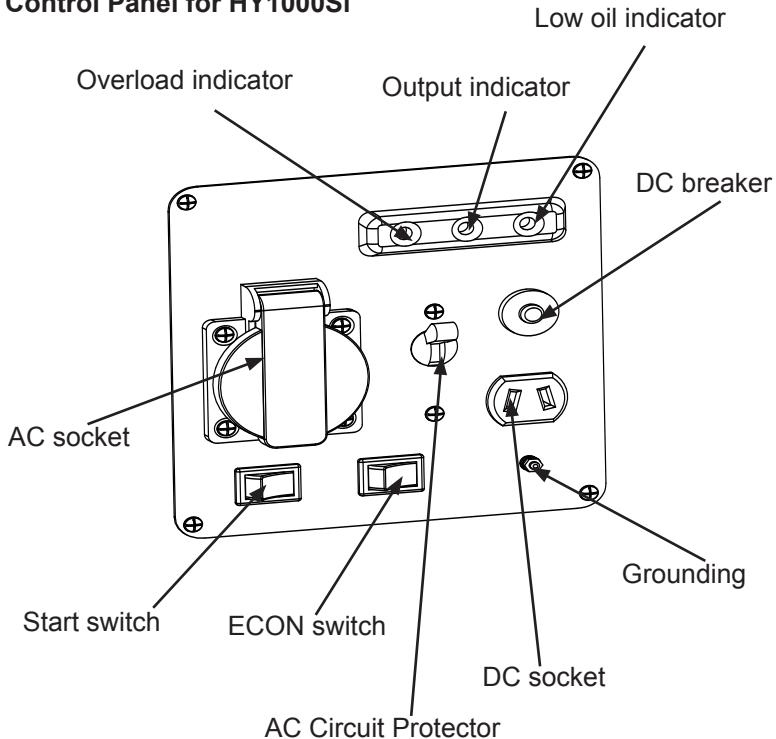
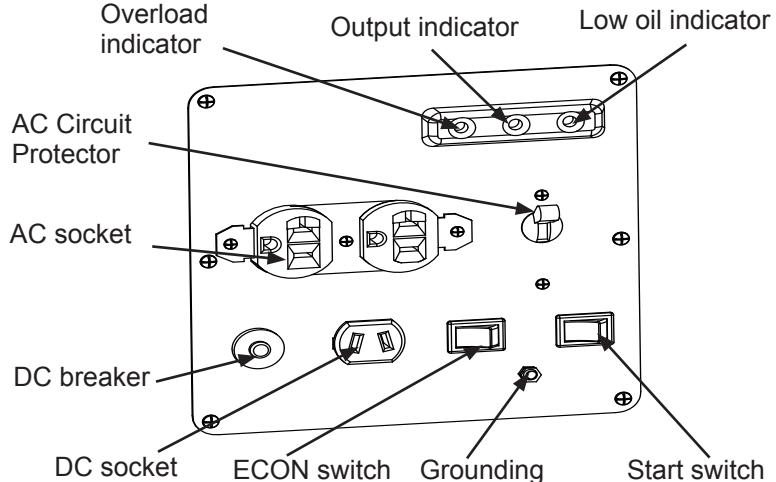
For HY2000Si

7.



Control Panel for HY1000Si

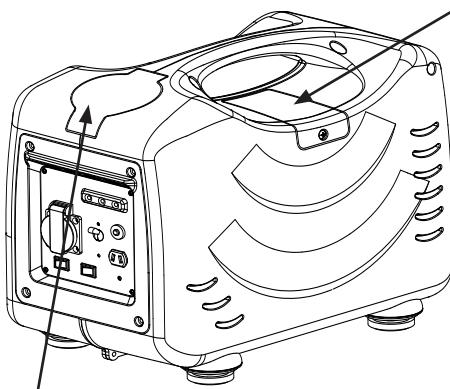
8.

**Control Panel for HY2000Si:**

Label Placement

For HY1000Si

EN



AC Voltage/ Voltage AC/ Voltage CC	120 12V 12V	Duration / Continuation Engine RPM / (RPM du moteur)	8 HRS 3600
Power Output / Sortie de Energie	900W	Fuel / Carburant	Gasoline/Gaz
Max. AC Output Power / 1000W	900W	Oil / Huile	15W40
Production maximale de voltage AC		Phase / Phase	I Isolant classe / Isolant classe F
Frequency / Fréquence	60 Hz	Insulation class / Isolant classe	
Max. ambient temperature/ Température ambiante maximale	40°	Frequency by Corporation Corporation Korea / Corporation Korea	
Temperature ambiante maximale		Max. ambient temperature/ Température ambiante maximale	40°
		Licence par la corporation Corporation Korea, Corp.	
		Temperature ambiante maximale	



ATTENTION! / ATTENTION!

- Never add fuel when the engine is running.
- Never add fuel when engine is hot.
- Always add fuel in a well-ventilated area.
- Always clean up fuel spills.
- Never add fuel when the motor is cold.
- Always transfer the fuel in a well-ventilated area.
- Always transfer the fuel in a well-ventilated area.
- Always clean up fuel spills.

ATTENTION! / ATTENTION!

Read the user's manual and all safety procedures before operating the generator. Never add fuel when the engine is running or hot. Never add fuel when the generator is in contact with hot engine parts. Always add fuel in a well-ventilated area. Always clean up fuel spills. Keep generator and stored fuel away from fire, sparks and cigarettes.

Luisez le manuel de l'utilisateur et toutes directions de sécurité avant d'utiliser le générateur. Ne jamais ajouter de carburant lorsque le moteur est en marche ou lorsque le moteur est chaud. Ne jamais ajouter de carburant près d'un moteur chaud ou le mettre en contact. Toujours ajouter de carburant dans un endroit bien ventilé. Toujours nettoyer les déversements de carburant. Ranger le générateur et le carburant éloigné des feux, des étincelles et des cigarettes.

IMPORTANT! / IMPORTANT!

DO NOT RETURN THE PRODUCT TO THE STORE.
NE PAS RETOURNER LE PRODUIT AU MAGASIN D'ACHAT.
For technical support or replacement parts, call 1-800-944-8811
www.hyundaipowersystems.ca

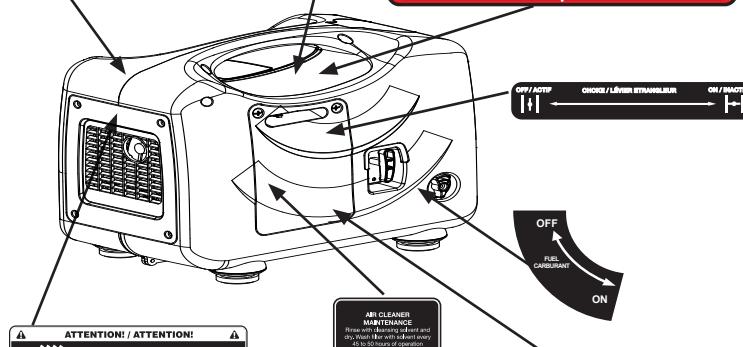
NEVER use inside a home or garage,
EVEN if doors and windows are open.
Never utiliser à l'intérieur d'une maison
ou d'un garage, même si les portes et fenêtres
sont ouvertes.

DANGER

Using a generator indoors CAN KILL YOU IN MINUTES.
L'utilisation d'un générateur à l'intérieur pourrait causer la mort en quelques minutes.

Generator exhaust contains carbon monoxide, This is a poison you cannot see or smell.
L'échappement d'un générateur contient du monoxyde de carbone. Ce gaz est invisible et sans odeur ni couleur apparente.

Only use OUTSIDE and far away from windows, doors and vents.
Toujours utiliser à l'extérieur et bien loin des portes et des fenêtres.



ATTENTION! / ATTENTION!

HOT SURFACES!
KEEP CLEAR OF EXHAUST!
SURFACE CHAUE! GARDER À L'ÉCART DE
L'ECHAPPEMENT DU MOTEUR

**ABRI CLÉNTER
MÉTAINCE**
This unit must be cleaned and dried. Wash Unit with soot every 10 hours. Wash Unit once every 10 hours if generator is used in dusty areas. Invert the Unit into original position when dry. Do not use excessive oil and solvent.

**ENTRETIEN DU
TAMIS**
Pincer une ou deux nettoyeuses et
laver le filtre avec un liquide nettoyant pour
nettoyer les particules de poussière et de
sable. Si nécessaire, laver le filtre à l'eau.
Laver le filtre une fois tous les 10
heures si vous utilisez l'unité dans
des zones poussiéreuses. Inverser l'unité
lorsqu'elle est sèche. Ne pas utiliser trop
d'huile et de solvants.

OFF / ACTIF ← CHOICE / LIVRAISON ETANGLIER → ON / INACTIF

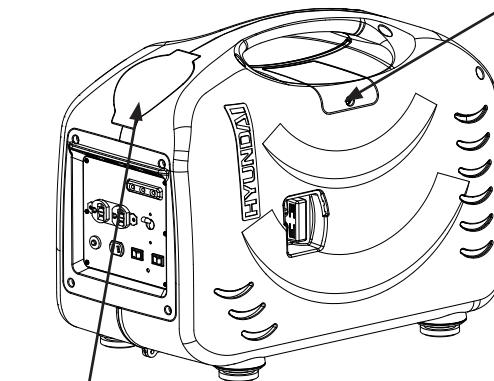
OFF
FUEL
CARBURANT
ON

Important Engine Information
THIS ENGINE CONFORMS TO U.S.
ENVIRONMENTAL STANDARDS
Engine Family Name: 01/2009
Engine Model: 01/2009
Date of manufacture: 01/2009
Emissions certification: 01/2009
Emissions compliance period: 125 hours
Emissions limit: 89 dB(A)
**CE MOTOR EST CERTIFIÉ POUR
OPÉRER SUR DU CARBURANT SANS
PLOMBE.**

HYUNDAI

Label Placement

For HY2000Si



AC Voltage/ DC Voltage/ Voltage CC	12V 12V 12V	Duration / Continuation	6 HRS
Power Output / Sortie de l'énergie	900W	Engine RPM / TRPM du moteur	3600
Max, AC Output Power / 1000W		Fuel / Carburant	Gasoline/Gaz
Production maximale de voltage AC		Oil / Huile	15W40
Phase / Phase	1	Insulation class / Isolation classe	F
Frequency / Fréquence	60 Hz	Licence par la Corée Corporation, Korea / Hyundai, Corée	
Température ambiante maximale / Température ambiante maximale	40°		
Hyundai Serial #			
Numéro de série			

ATTENTION! / ATTENTION!

- Never add fuel when the engine is running.
- Never add fuel when engine is hot.
- Always add fuel in a well-ventilated area.
- Always clean up fuel spills.

- Jamais ajouter du carburant lorsque le moteur est en marche.
- Jamais ajouter du carburant lorsque le moteur est chaud.
- Toujours transférer le carburant dans un endroit bien ventilé.
- Toujours ramasser les fuites de carburant.

ATTENTION! / ATTENTION!

Read the user's manual and safety procedures before operating the generator. Never add fuel to the generator when it is running or hot. Always add fuel in a well-ventilated area. Keep generator and stored fuel away from trees, sparks and cigarettes.

Lire le manuel de l'utilisateur et les instructions de sécurité avant d'utiliser le générateur. Ne jamais ajouter du carburant lorsque le moteur est en marche ou lorsque le moteur est chaud. Toujours ajouter du carburant dans un endroit où il n'y a pas de moteur chaud ou de moteur en contact. Toujours ajouter du carburant dans un endroit bien ventilé. Ne jamais utiliser le générateur et le carburant émbouti (bon à feu, essence ou cigarette).

IMPORTANT / IMPORTANT

DO NOT RETURN THE PRODUCT TO THE STORE
Pour renvoyer le produit au magasin d'achat

NE RENVOYEZ PAS LE PRODUIT AU MAGASIN D'ACHAT
Pour toute réclamation ou tout autre problème, veuillez visiter notre site Web à l'adresse suivante : www.hyundairv.com

DANGER

Using a generator indoors CAN KILL YOU IN MINUTES.
L'utilisation d'un générateur à l'intérieur pourrait causer la mort en quelques minutes.

Generator exhaust contains carbon monoxide, This is a poison you cannot see or smell.
L'échappement d'un générateur contient du monoxyde de carbone, ce qui est un poison mortel qui est sans couleur ni odeur apparente.

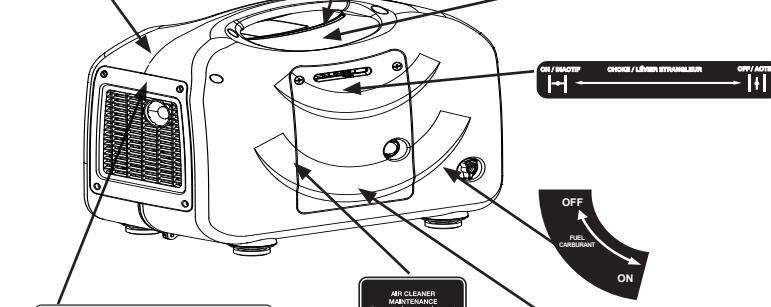


NEVER use inside a home or garage.
NEVER IF doors and windows are open.

No jamais utiliser à l'intérieur d'une maison ou garage, même si les portes et fenêtres sont ouvertes.



Only use OUTSIDE and far away from windows, doors and vents.
Toujours utiliser à l'extérieur et bien loin des portes et des fenêtres.



AIR CLEANER MAINTENANCE

Push air cleaner filter into housing and dry. Wash filter with soapy water every 50 hours of use.
Wash the once every 50 hours if operating in dusty environment. Remove the filter from engine after 10 hours of use. Replace the filter with a new one if sooty or excessive oil and vented.

ENTRETIEN DU FILTRE À AIR

Pincer et pousser le filtre à air dans le logement et faire sécher. Nettoyer le filtre à air avec de l'eau savonneuse tous les 50 heures d'utilisation.
Nettoyer une fois tous les 50 heures si l'environnement est très poussiéreux. Retirer le filtre à air de l'engine après 10 heures d'utilisation. Remplacer le filtre à air par un nouveau si sale ou si graisseux et si il a dépassé les 10 heures.

Rangez le filtre dans le carburant à l'abri de la lumière directe du soleil pour empêcher l'évaporation de l'huile.

Important Engine Information

THIS ENGINE CONFORMS TO U.S. EPA AND CARB Emissions
Engineering Family Name: 1000 Series
Date of manufacture: 01/2009
Emissions Control System: 1.5
Emissions Control Period: 125Hours
Emissions Control Period: 125Hours
THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE PLUMB.

Information importante sur le Moteur

CE MOTEUR EST CERTIFIÉ POUR fonctionner sur du CARBURANT SANS PLOMBE.

3. PRE-OPERATION INSPECTION



WARNING

Be sure to check the generator on a level surface with the engine stopped

- Ensure the generator is on a level surface
- **Engine Oil Inspection:**



WARNING

Using non-detergent oil or 2-stroke engine oil could shorten the generator's life

1. Loosen the cover screws and remove the maintenance cover (Refer to Fig. 3.0 for HY1000Si and Fig. 3.1 for HY2000Si)
2. Remove the oil filler cap and wipe the dipstick clean (Refer to Fig. 3.2 for HY1000Si or HY2000Si)
Check the oil level by inserting the dipstick into the filler neck without rotating it
3. If the level is low, fill to the upper limit of the oil filler neck with the recommended oil
4. Reinstall the maintenance cover and tighten the cover screws

11.

Maintenance Cover

Cover Screw

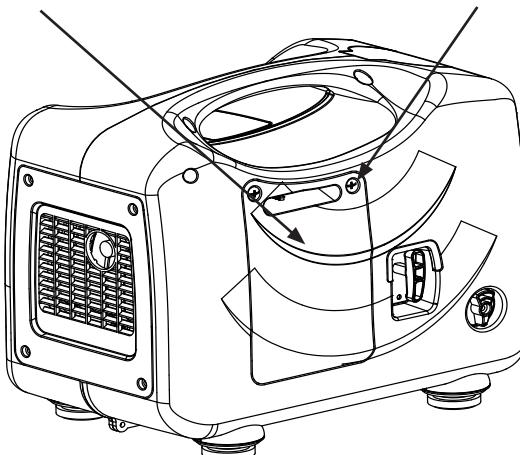


Fig. 3.0

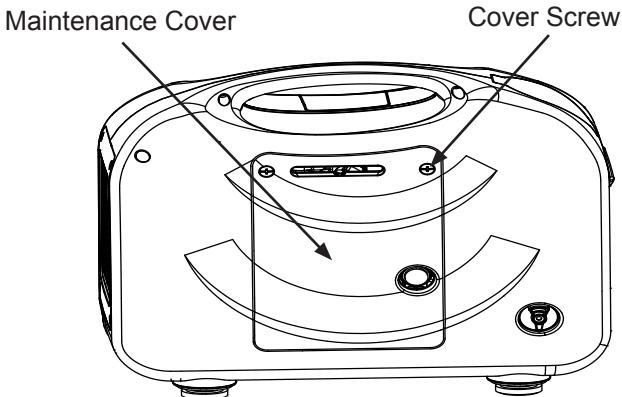


Fig. 3.1

12.

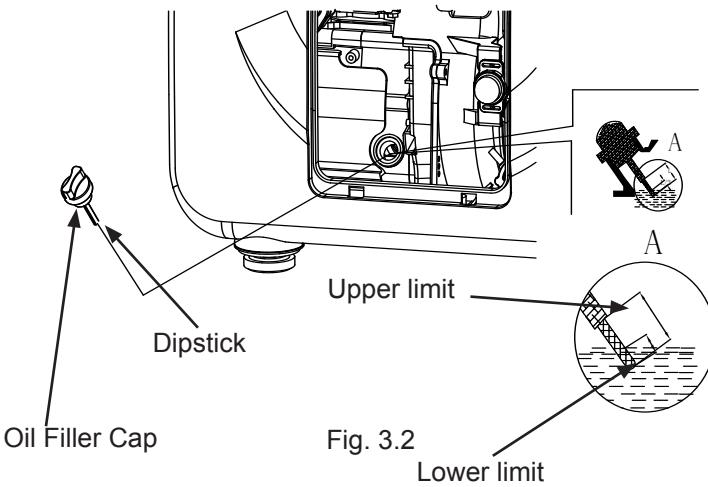


Fig. 3.2

NOTICE

The Oil Alert System will automatically shut off the engine before the oil level falls below the safe limit. However, to avoid the inconvenience of an unexpected shutdown, it is still advisable to visually inspect the oil level regularly.

Fuel level check:

1. Turn the engine start switch to STOP position
2. Open the fuel cap cover. Remove the fuel cap and check the fuel level
3. Refill the fuel tank if the level is low. Refuel carefully to avoid

spilling fuel. Do not fill above the upper limit mark (Refer to Fig. 3.3)

CAUTION

- Gasoline is highly flammable and explosive. Keep the engine away from heat, spark and open flame
- Refuel in a well-ventilated area with the engine stopped
- Handle fuel only outdoors
- Wipe up spills immediately
- Avoid getting dirt, dust or water in the fuel tank

CAUTION

- Never use an oil/gasoline mixture or dirty gasoline
- Don't use fuel containing alcohol. Fuel system damage or engine performance problems will result from the use of fuels that contain alcohol
- Avoid repeated or prolonged contact with skin or breathing of fuel vapor

13.

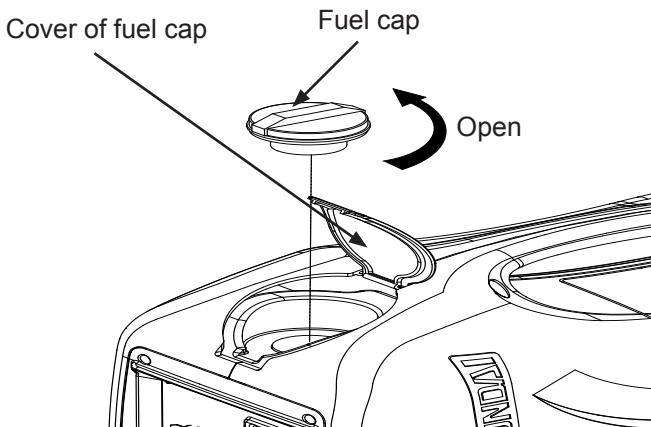


Fig. 3.3

Check the air filter:**WARNING**

Never run the engine without the air filter. Rapid engine wear will result from contaminants, such as dust and dirt, being drawn through the carburetor, into the engine.

1. Loosen the cover screws, nuts and remove the maintenance cover. Remove the air filter cover and the air filter sponge (Refer to Fig. 3.4)
2. Observe the sponge for cleanliness
3. Clean sponge with soap and water or solvent. Squeeze dry and then soak in clean engine oil. Squeeze out all excess oil and reinstall.
4. Replace the sponge if it is damaged

14.

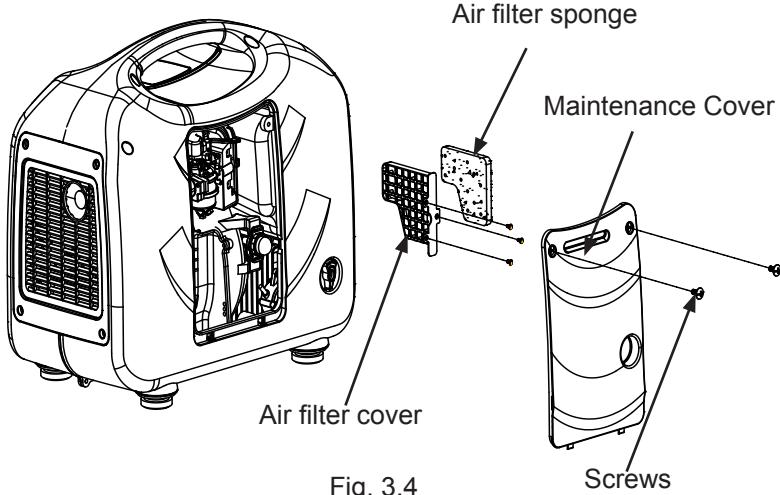


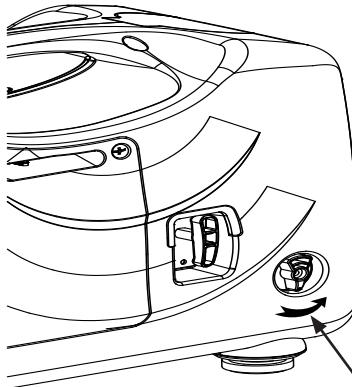
Fig. 3.4

4. OPERATION**4.1: STARTING THE GENERATING SET****NOTICE**

-A hot engine will not start if there is too much gasoline in the cylinder. If this happens, wait for 5 to 10 minutes for the engine to cool down before starting

-The engine will stop automatically when it is out of gasoline

1. Rotate the fuel switch to the ON position according to the arrow direction. (Refer to Fig. 4.0 for HY1000Si and Fig. 4.1 for HY2000Si)



Turn the fuel switch to ON
(counterclockwise)

Fig. 4.0

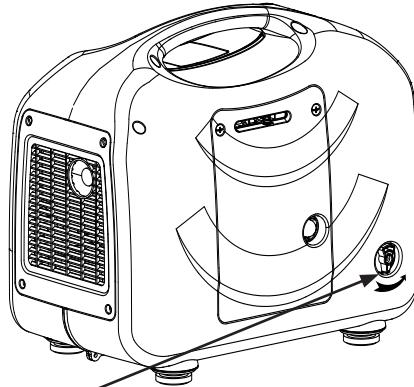


Fig. 4.1

2. If the engine is cold, move the choke rocker to the CLOSE position. Refer to Fig. 4.2 for HY1000Si and Fig. 4.3 for HY2000Si

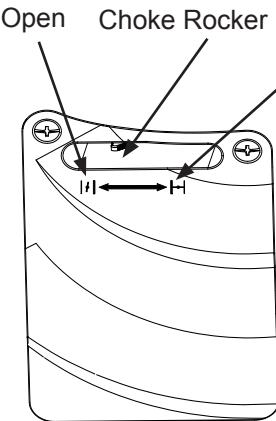


Fig. 4.2

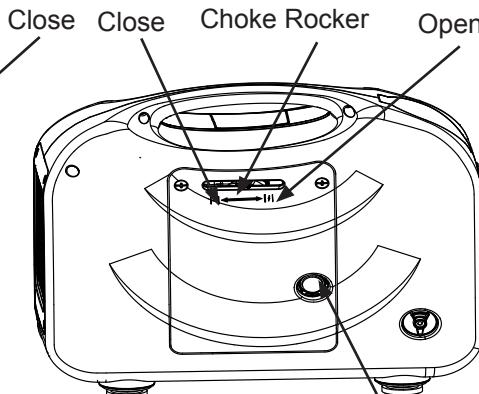


Fig. 4.3 Primer Bulb

3. Press the start switch to the RUN position (Refer Fig. 4.4 for HY1000Si and Fig. 4.5 for HY2000Si)

Note: The choke lever direction of HY1000Si is opposite to that of HY2000Si.

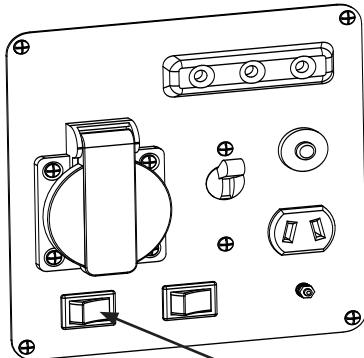


Fig. 4.4

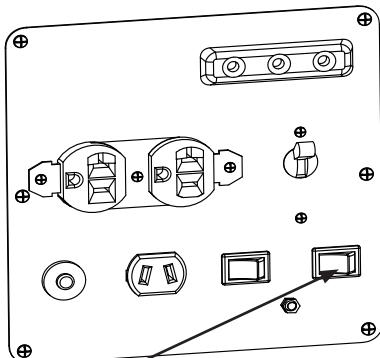


Fig. 4.5

4. Pull slightly on the starter grip until you feel resistance and then pull briskly. (Refer to Fig. 4.6 for HY1000Si and Fig. 4.7 for HY2000Si)

16.

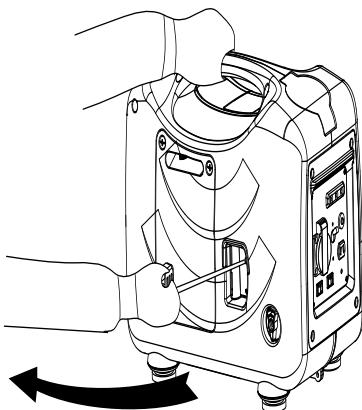


Fig. 4.6

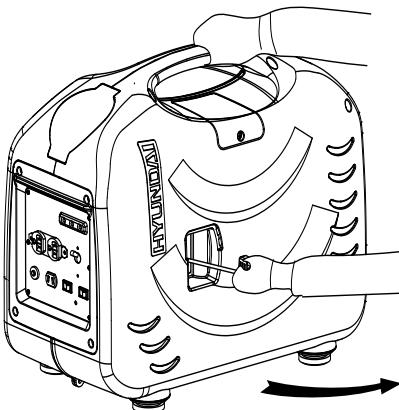


Fig. 4.7

5. After the engine warms up (above 50°F), slowly turn the choke rocker to the OPEN position.



WARNING

-Do not allow the starter grip to snap back. Return it slowly by hand

-Grasp the carrying handle firmly to prevent the generator from falling over when pulling the starting grip

NOTICE

-If the engine stops and will not restart, check the engine oil level before troubleshooting other areas

-Make sure the ECON switch is OFF before turning on the connected device

Primer Bulb (For HY2000Si only)

The primer bulb is used for bringing small amounts of gasoline to the throat opening of the carburetor. The problem is that sometimes generator cannot start because the fuel cannot reach the carburetor (Refer to Fig. 4.3)

Procedure for using the primer bulb

- a) Set the choke rocker in the OPEN position
- b) Push the primer bulb 7 to 10 times
- c) Move the choke rocker to the CLOSE position and start the engine

17.

4.2: USING THE GENERATOR SET



WARNING

Connections for standby power to a building's electrical system must be done by a qualified electrician and must comply with all applicable laws and electrical codes. Improper connections may cause serious injuries to electrical workers during power outage, and when the utility power is restored, the generator may explode or cause fires.



WARNING

- To prevent electrical shock from faulty appliances, the generator should be grounded
- Limit operation requiring maximum power to 30 minutes
- Do not exceed the current limit specified for any one receptacle
- Do not connect the generator to a household circuit



WARNING

- Do not modify or use the generator for other purpose than it is intended for.
- When an extension cable is required, be sure to use a rubber sheathed flexible cable
- Limit length of extension cables: 60 m for cables of 1.5mm² and 100 m for cables of 2.5 mm²

18.



WARNING

- Keep the generator away from other electric cables or wires such as distribution network
- The DC receptacle can be used while the AC power is in use. If you use both at the same time, be sure not to exceed the total power for AC and DC



WARNING

- Before connecting a device to the generator, make sure the electrical rating of the device does not exceed the electrical rating of the generator
- Be sure the device is turned off before plugging in the power cord



WARNING

- When the output indicator light (green) is OFF and the overload indicator light (red) is ON, press the start switch to the STOP position, stop the engine at once and then start the engine again.

19.

NOTICE

-When the device requires a large starting power, the overload indicator light (red) and the output indicator light (green) may be ON together for a short period, but this is no abnormality. After the device starts, the overload indicator light (red) will go out and the output indicator light (green) will stay ON.

GROUND TERMINAL

Before using generator, a ground wire must be connected to the ground terminal.

Before using the ground terminal, consult a qualified electrician.
(Refer to 4.8 for HY1000Si and Fig. 4.9 for HY2000Si)

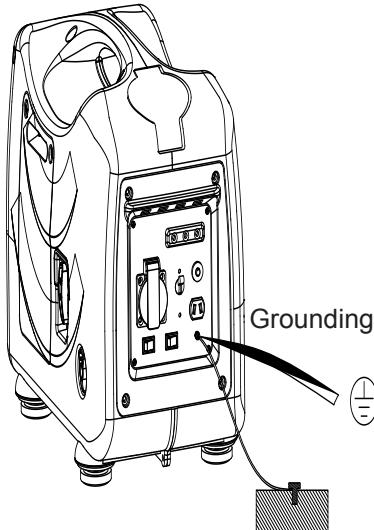


Fig. 4.8

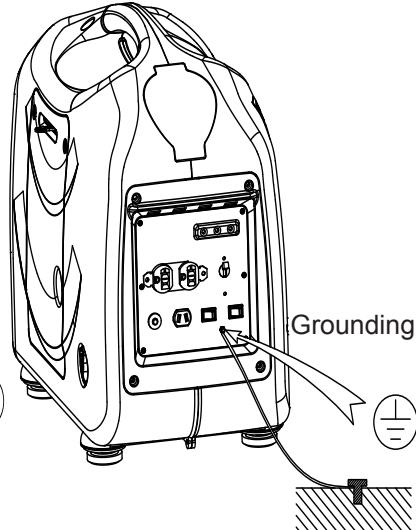


Fig. 4.9

For AC Operation

20.

1. Turn off the switches of the device before connecting to the generator
2. Start the generator and make sure the output indicator lights (green) come on. (Refer to Fig. 4.10 for HY1000Si and Fig. 4.11 for HY2000Si)

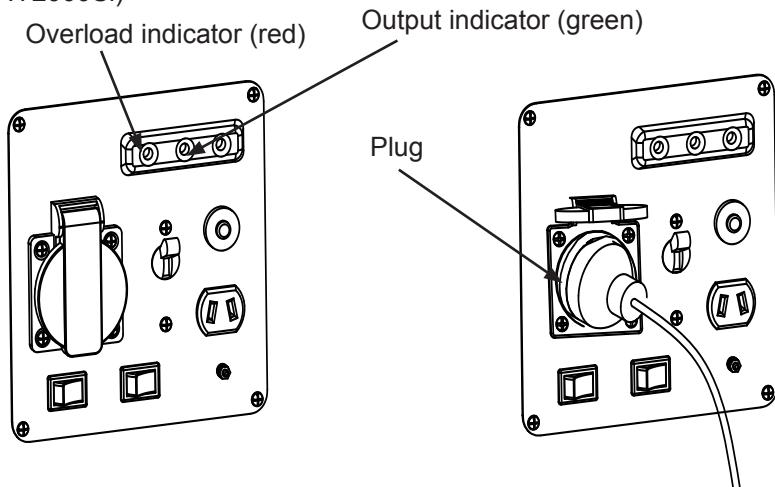


Fig. 4.10

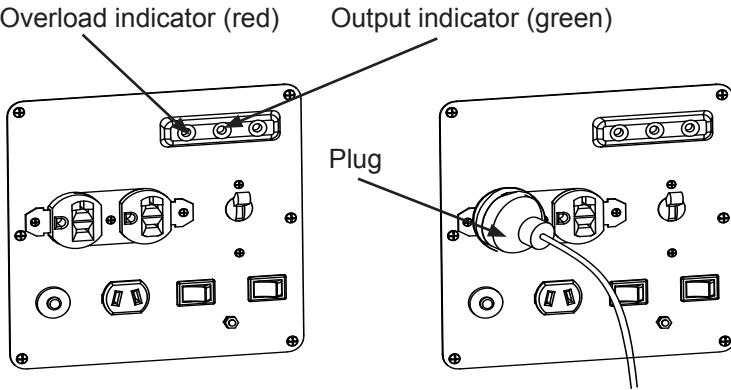


Fig. 4.11

NOTICE:

- Under normal operating conditions, the output indicator light (green) will be ON
- If the generator is overloaded (in excess 100W), or if there is a short circuit in a connected device, the overload indicator light (red) will go ON.
- If the oil level falls below a safe limit, the low oil indicator light (red) comes on and the engine will be automatically stopped. If the engine stops or the low oil indicator light comes on when you pull the starter grip, check the engine oil level before troubleshooting in other areas. (Refer to 4.12 for HY1000Si and Fig. 4.13 for HY2000Si)

21.

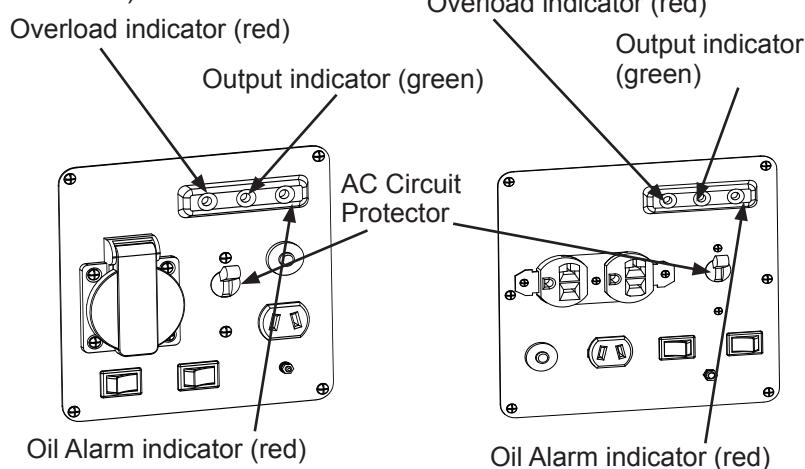


Fig. 4.12

Fig. 4.13

3. Plug the power cord of the device into the AC socket, turn on the AC circuit protector, and turn on the device. (Refer to Fig. 4.10 for HY1000Si and Fig. 4.11 for HY2000Si)

For DC Operation

NOTICE:

- The DC socket is only used for charging a 12V battery. (Refer to Fig. 4.14 for HY1000Si and Fig. 4.15 for HY2000Si)
- When using the DC socket, turn the ECON switch to the OFF position. (Refer to Fig. 4.14 for HY1000Si and Fig. 4.15 for HY2000Si)

22.

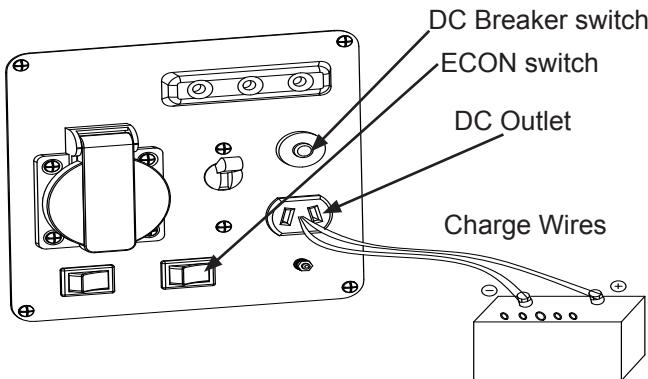


Fig. 4.14

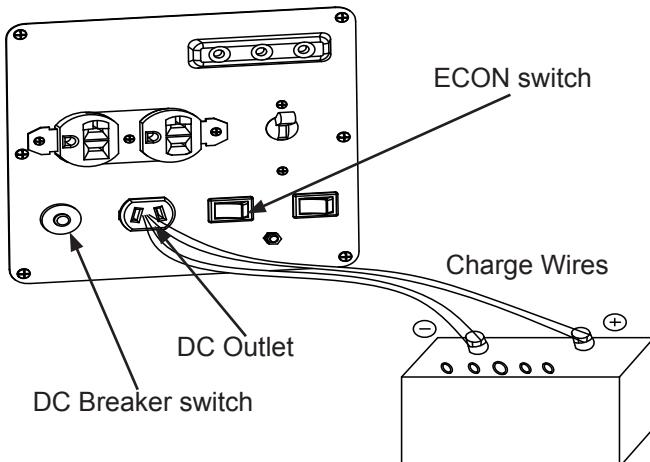


Fig. 4.15

1. Press the ECON switch to the OFF position
2. Connecting the battery charging cable
 - a) Connect the battery charging cable to the battery
 - b) Plug the charging wires into the DC outlet of the generator.



WARNING

-The battery gives off explosive gases; keep sparks, flames and cigarettes away. Provide adequate ventilation when charging or using batteries
-Battery posts, terminals, and related accessories contain lead components. Wash hands after handling

- c) Connect the positive (red) terminal of the charging wire to the positive (+) battery terminal and negative (black) terminal of the charging wire to the negative (-) battery terminal
3. Press the start switch to RUN position
4. Press the DC breaker switch to ON position (Refer to Fig. 4.12 for HY1000Si and Fig. 4.13 for HY2000Si)
5. Start the generator

23.

4.3: STOPPING THE GENERATOR SET

For HY1000Si/HY2000Si (AC Operation)

1. Turn off the device and unplug devices from the generator receptacles
2. Press the start switch to the STOP position
3. Rotate the fuel switch to the OFF position (in the clockwise direction)

NOTICE

Be sure the fuel SWITCH is in the OFF position and the start switch is in the STOP position when stopping, transporting and/or storing the generator

For HY1000Si/HY2000Si (DC Operation only)**NOTICE**

An overloaded DC circuit, excessive current draw by the battery, or a wiring problem will automatically trip (turn off) the DC breaker switch. If this happens, wait a few minutes before pressing the breaker switch to the ON position to resume operation. If the breaker switch continues to go OFF, discontinue charging and contact your authorized dealer.

Disconnecting the charging wire

1. Stop the engine
2. Disconnect the negative (black) terminal of charging wire from the negative (-) battery terminal
3. Disconnect the positive (red) terminal of the charging wire from the positive (+) battery terminal
4. Disconnect the charging wire from the DC Receptacle of the generator

5. MAINTENANCE

5.1: Importance of Maintenance

Proper maintenance is important because it will ensure safe, economical and trouble-free operation. It will also reduce air pollution. Improper maintenance may cause the generator to malfunction and can lead to serious injuries or death.

5.2: Maintenance Schedule



WARNING

-Shut off the engine before performing any maintenance. When the engine is running, make sure the area is well ventilated. The exhaust contains poisonous carbon monoxide gas.



WARNING

-Use authorized parts or their equivalent. The use of replacement parts which are not equivalent quality may damage the generator

25.

NOTE: Some of these maintenance techniques can be dangerous and should be performed by a qualified technician

For HY1000Si/HY2000Si:

In order to maintain good performance and extend the service life of the generator, period inspection and adjustments should be done based on the following maintenance schedule:

Item	Mainte-nance	Each using time	1st month or 20 hours	Each quar-ter or 50 hours	Every 6 months or 100 hours	Every year or 200 hours
En-gine Oil	Check level	•				
	Change		•		•	
Air Filter	Check	•				
	Clean			•(refer to no-tice 1)		
Spark Plug	Check-adjust				•	
	Replace					•
Valve clear-ance	Check-readjust					•(refer to no-tice 2)
Com-bus-tion cham-ber	Clean	After every 300 hrs (refer to notice 2)				
Fuel tank and Filter	Clean				•(refer to notice 2)	
Fuel line	Cleaning	Every 2 years (Replace if necessary) (Refer to notice 2)				

NOTICE:

1. Service more frequently when used in dusty areas
2. Should be serviced by an authorized dealer

5.3: Air Filter Service

1. Loosen the cover screws nuts and remove the maintenance cover
 2. Remove the air filter cover
 3. Remove the air filter sponge (refer to Fig. 5.0)
 4. Check the filter sponge to make sure that it is clean and in good condition. If the sponge is dirty, clean it as described in Fig. 5.1.
- Replace the sponge if it is damaged

To clean the sponge:

1. Clean the sponge in warm soapy water or nonflammable solvent, rinse, and allow to dry thoroughly
2. Dip the sponge in clean engine oil and squeeze out all excess oil. The engine will smoke when started if too much oil is left in the filter.
3. Wipe dirt from the air filter cover using a moist rag.

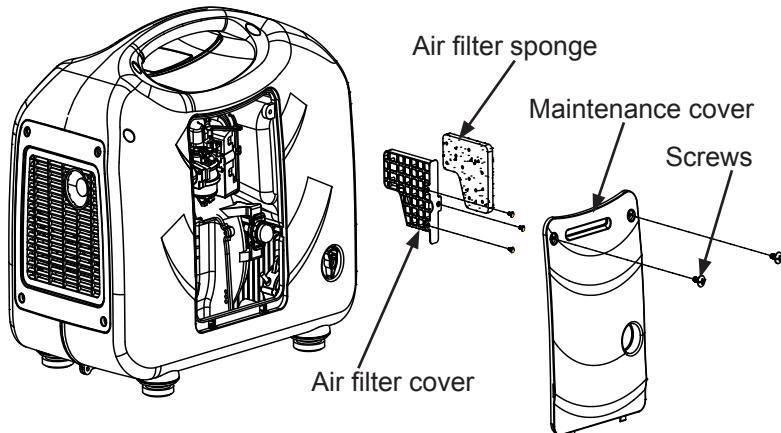


Fig. 5.0

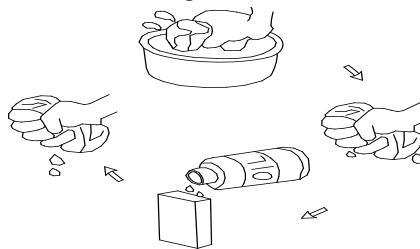


Fig. 5.1

4. Reinstall the sponge and the air filter cover

5. Close the maintenance cover with screws

5.4: Changing Engine Oil



WARNING

- Make sure the start switch is in the STOP position before draining
- Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local service station for reclamation. Do not throw it in the trash or pour it on the ground.



WARNING

- Do not use gasoline for cleaning since it is flammable and explosive under certain conditions.

28.

1. Press the start switch to the STOP position and make sure the fuel cap is fully closed.
2. Loosen the cover screws and remove the maintenance cover
3. Place a container next to the engine to catch the used oil (Refer to Fig. 5.2 for HY1000Si and Fig. 5.3 for HY2000Si)
4. Remove the oil filler cap/dipstick and drain the oil into the container by tilting the generator

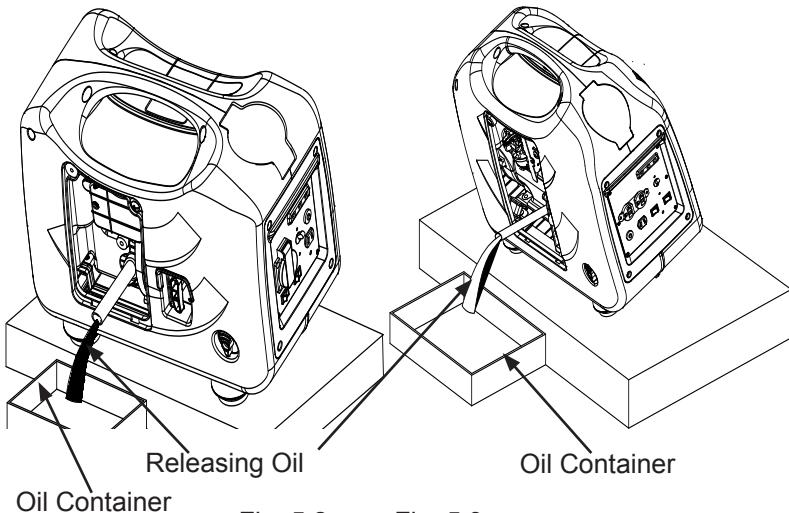


Fig. 5.2 Fig. 5.3

5. With the engine in a level position, add oil to the upper level mark (Refer to Fig. 5.4)

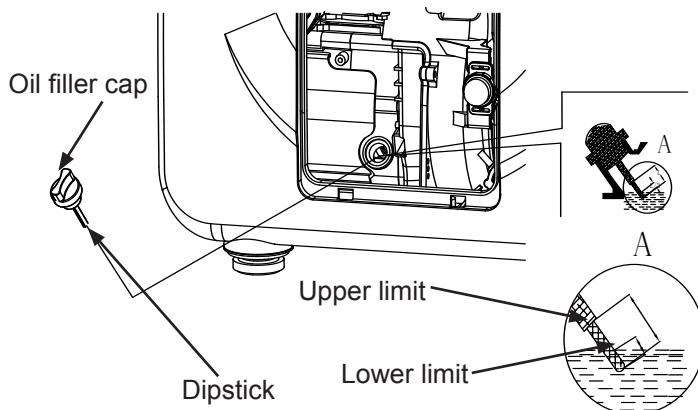


Fig. 5.4

6. Reinstall the oil filler cap/dipstick securely.
 7. Reinstall the maintenance cover and tighten the cover screws securely.

29.

5.5: Spark Plug Service

1. Remove the top screw and the top maintenance cover (Refer to Fig. 5.5 for HY1000Si and Fig. 5.6 for HY2000Si)

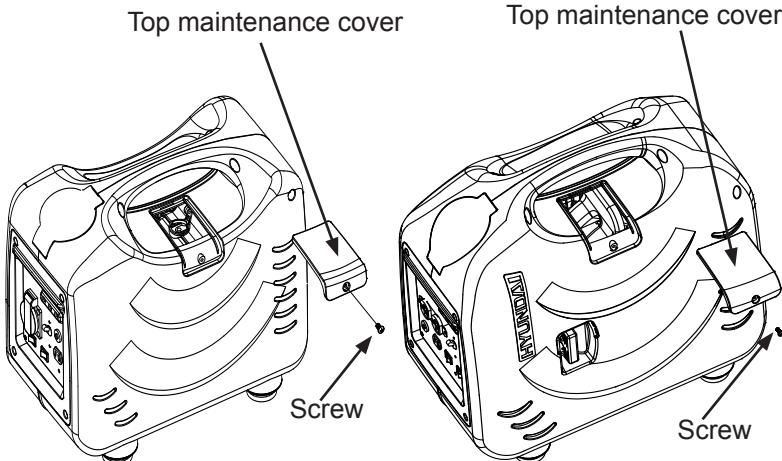
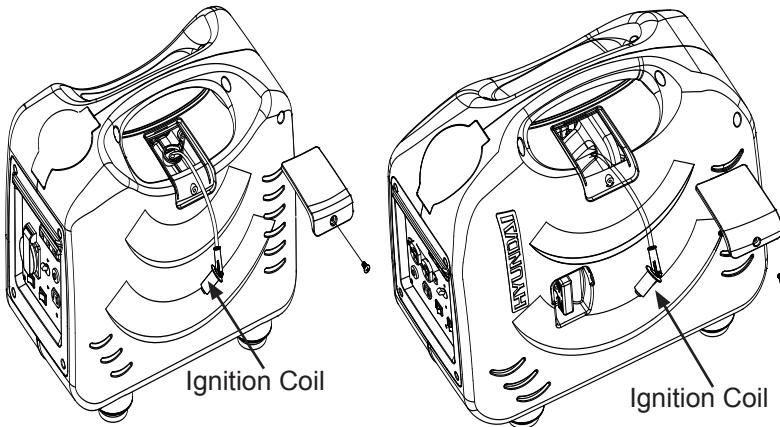


Fig. 5.5

Fig. 5.6

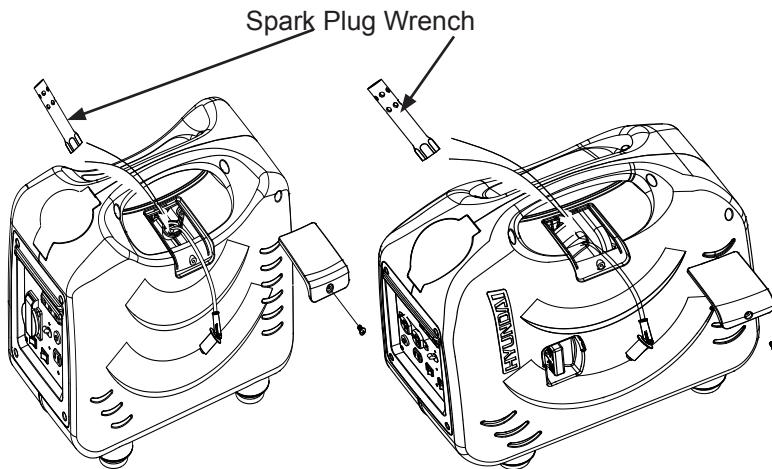
2. Remove the ignition coil (Refer to Fig. 5.7 for HY1000Si and Fig.

5.8 for HY2000Si)



30.

3. Clean any dirt and debris around the spark plug base
4. Use a wrench to remove the spark plug (Refer to Fig. 5.9 and Fig. 5.11 for HY1000Si, Fig. 5.10 and Fig. 5.12 for HY2000Si)



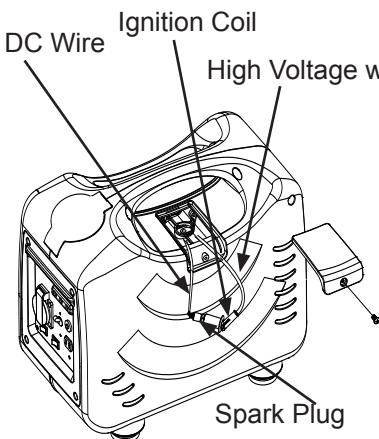


Fig. 5.11

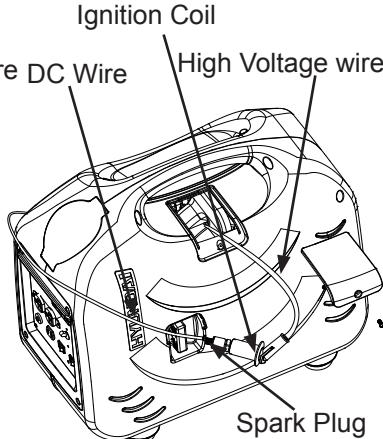


Fig. 5.12

5. Visually inspect the spark plug. Clean the spark plug with a brush if it is to be reused.
 6. Measure the plug gap with a feeler gauge. The gap should be 0.7 to 0.8 mm (0.028 to 0.031 inch). Correct as necessary by carefully bending the side electrode (Refer to Fig. 5.13)

31.

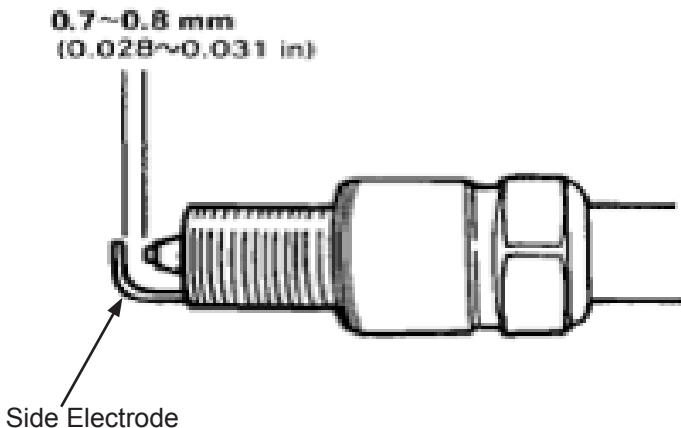


Fig. 5.13

7. Install the correctly gapped spark plug back into the original position.
 8. Reinstall the ignition coil securely
 9. Close the top maintenance cover and tighten the screw

⚠ WARNING

The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the generator

⚠ WARNING

- Never use a spark plug with an improper heat range
- Never use a spark plug without damping resistance, or it will cause no AC output.

5.6: Transportation & Storage

32.

⚠ WARNING

- Gasoline is extremely flammable and explosive under certain conditions
- Do not smoke or allow flames or sparks in the area

When transporting the generator:

- Do not overfill the tank
- If the generator has been used, allow it to cool for at least 15 minutes before loading it on the transport vehicle
- To prevent fuel spillage, the generator should be secured upright in its normal operating condition, with the start switch in the STOP position.
- Do not drop or strike the generator when transporting.
- Do not place heavy objects on the generator.

Storage Procedure

1. Drain the gasoline. Unscrew the fuel tank cap, remove the debris screen under the cap, and empty the fuel tank into an approved gasoline pot. Rotate the fuel switch to the ON position (Refer to Fig. 4.0 for HY1000Si and Fig. 4.1 for HY2000Si).
2. Start the generator and operate it in the idle position until all remaining fuel is gone and the engine stops automatically. (Refer to

Fig. 5.14 for HY1000Si and Fig. 5.15 for HY2000Si)

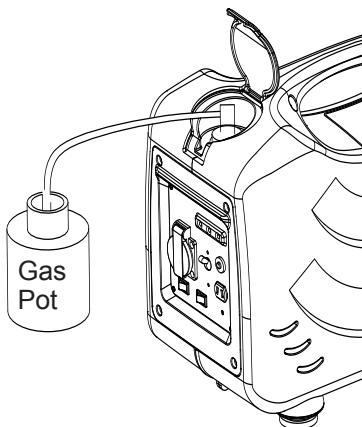


Fig. 5.14

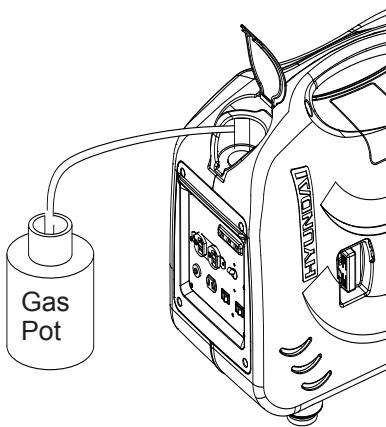


Fig. 5.15

3. Discharge Oil

- a) Press the start switch to the STOP position and make sure the fuel cap is fully closed.
- b) Loosen the cover screws and remove the maintenance cover
- c) Place a container next to the engine to catch the used oil
- d) Remove the oil filler cap/dipstick and drain the oil into the container by tilting the generator
- e) Remove the screw, top maintenance cover and the spark plug.
- f) Fill the spark plug orifice with 2 cc's (about a tablespoon) of fresh oil. Pull the start motor 3-4 times to distribute the oil.
- g) Reinstall the spark plug, top maintenance cover and screw securely
- h) Pull the starter grip slowly until you feel resistance, then return the starter grip gently. This closes the valves so moisture cannot enter.

33.

6. TROUBLESHOOTING



WARNING

-Many troubleshooting procedures present hazards which can result in severe personal injury or death. Only trained and experienced service personnel with knowledge of fuels, electricity, and machinery hazards should perform service procedures. Review Safety Precautions.



WARNING

-A hot generator can cause severe burns. Always allow the generator set to cool before performing any maintenance service.

34.

If the engine doesn't start:

- Make sure there is no spilled fuel around the spark plug
- If the engine still doesn't start, have the generator repaired by a licensed repair person

Problem	Recommended Action
Not Enough Fuel	Add fuel
Start switch and fuel valve not ON	Turn them to the ON position
Not enough lubricating oil	Add more oil
No fuel in the carburetor	Start a few times to ensure fuel enters the carburetor
Spark plug not working	Replace spark plug Send generator to authorized dealer

If the device that connects the generator doesn't start:

Problem	Recommended Action
Both the Output indicator light and the Overload indicator are no ON	Send the generator to an authorized dealer
If the Output indicator light is ON, but device doesn't work after plugging in directly	Restart if the overload indicator is off. If it doesn't work, send the generator to an authorized dealer
Both the Output indicator light and the Overload indicator light are ON, but device has no defects	Send the generator to an authorized dealer
Both the Output indicator light and the Overload indicator light are ON, but device has no defects	Send the generator to an authorized dealer

If there is no power in the direct current electric outlet:

35.

Problem	Recommended Action
Electric circuit breaker is not intact	Replace the electric circuit breaker
Electric circuit breaker is intact	Send the generator to an authorized dealer

Deficient AC Output:

Problem	Recommended Action
Dirty air filter	Clean or replace air filter sponge
Improper gasoline	Replace gasoline
	Send generator to authorized dealer

7. SPECIFICATIONS & DATA

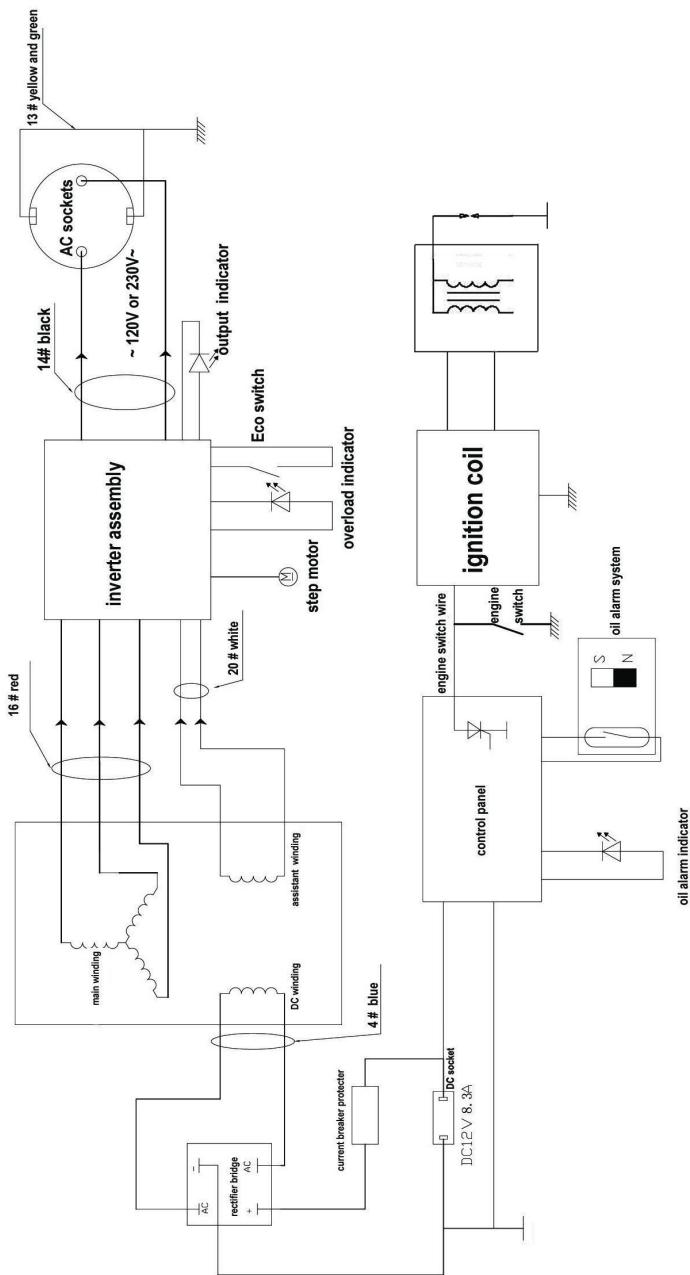
HY1000i		
GENERATOR	Type	Digital Inverter / Sine Wave
	Frequency	60Hz
	Rated AC Output Power (kW)	0.9
	Max AC Output Power (kW)	1
	Voltage	120V
ENGINE	Model	XG142F
	Type	OHV, Forced-Air Cooling, single cylinder, 4 stroke, Gasoline engine
	Bore x Stroke (mm x mm)	43.5 x 36
	Displacement (cc)	53
	Rated Power (kw)	1.2/5000rpm
	Max Power (kw)	1.4/5500rpm
	Ignition mode	T.D.I
	Recommended fuel	Unleaded Gasoline
	Fuel tank capacity (L)	2.7
	Fuel consumption (h)	420g/kw.h
	Engine oil capacity (L)	0.25 (15W40)
	Starting system	Pulling recoil starting
	Continuous work time (hours)	5
STANDARD FEATURES	Noise level (7m)	58 (7m)
	Indicator light	O
	AC Overload Protector	O
OPTIONAL FEATURES	AC Socket	O
	DC Socket (12v/8.3A)	"T" or "V" Type
	DC Protector	O
DIMENSIONS	Packing dimensions (mm)	490 x 300 x 410
	N.W (kg)	14
	G.W (kg)	16

HY2000Si

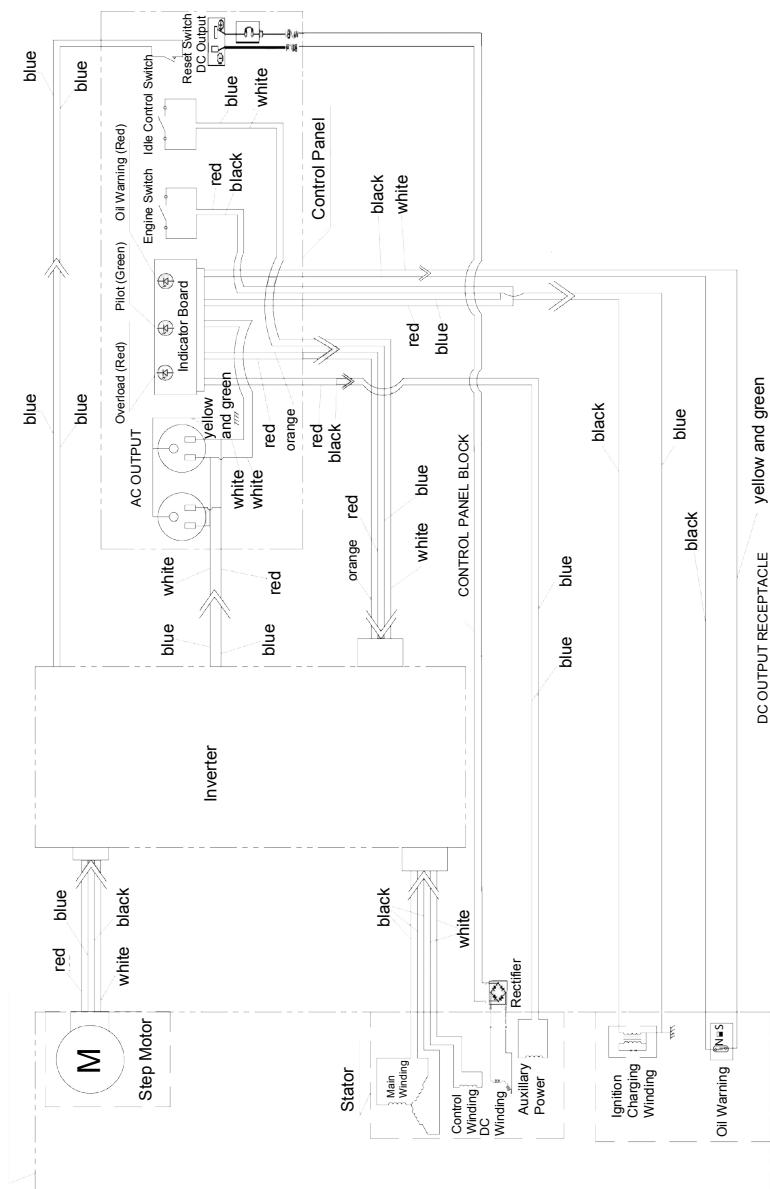
GENERATOR	Type	Digital Inverter / Sine Wave
	Frequency	2
	Rated AC Output Power (kW)	2.2
	Max AC Output Power (kW)	60Hz
	Voltage (V)	120V
ENGINE	Model	XG152F
	Type	OHV, Forced-Air Cooling, single cylinder, 4 stroke, Gasoline engine
	Bore x Stroke (mm x mm)	52 x 58
	Displacement (cc)	125
	Rated Power (kw)	3.5/5000rpm
	Max Power (kw)	3.8/5500rpm
	Ignition mode	T.D.I
	Recommended fuel	Unleaded Gasoline
	Fuel tank capacity (L)	7
	Fuel consumption (h)	380g/kw.h
	Engine oil capacity (L)	0.45 (15W40)
	Starting system	Pulling recoil starting
STANDARD FEATURES	Continuous work time (hours)	5
	Noise level (7m)	65 (7m)
	Indicator light	O
OPTIONAL FEATURES	AC Overload Protector	O
	AC Socket	O
DIMENSIONS	DC Socket (12v/8.3A)	"T" or "V" Type
	DC Protector	O
	Packing dimensions (mm)	575 x 330 x 525
	N.W (kg)	30
	G.W (kg)	32

8. WIRE DIAGRAMS

For HY1000Si



For HY2000Si



39.

9. WARRANTY

Warranty Terms and Conditions

Canadian distribution of Hyundai branded Portable generators are distributed by:

Midland International
26 Huddersfield Rd.
Unit #2
M9W-5Z6 Canada

This product is warranted to be free of defects in material and workmanship for two years from date of purchase. This warranty guarantees that any defective parts will be repaired or replaced at no cost, including diagnosis and replacement parts.

Limited Warranty periods:

40. Recreational/residential use: 2 years limited. 1st year, parts and labor. 2nd year parts only.

Commercial use: 6 months limited, parts and labor

This limited warranty begins at the initial time of retail purchase and covers manufacturer's defects caused by a defect in components or workmanship during the two (2) Year period. The warranty coverage is continual from the initial date of purchase and does not restart at anytime under any circumstances. This limited warranty is valid for residential or recreational applications only and only when the generator receives all necessary preventative maintenance as described in the Hyundai Generators "Operation Manual. The repair or replacement of a generator will take place within a reasonable period of time during normal business hours. All repair and replacement parts shall be warranted for (90) days after the initial date of installation or purchase.

Limitation of Remedies and Disclaimers

Midland International Inc. disclaims any responsibility for loss of time or use of the generator in a recreational vehicle or any vehicle in which the generator is installed, transportation, commercial loss, or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written warranty. THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE OF AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY.

ITY, FITNESS FOR A PARTICULAR PURPOSE AND OF ANY OTHER WARRANTY WHETHER EXPRESS OR IMPLIED.

Consumable parts, such as oil or fuel filters, fuel cut off valve, brushes, fuel injection nozzle valve, lubricant, or ignition plug, are not covered under this warranty. All expenses incurred in maintaining and replacing parts for generator shall fall on the purchaser. This warranty coverage does not include parts affected by accident and/or collision, corrosion or rust, normal wear, incorrect fuel type or fuel contamination, use in an application for which the product was not intended, unauthorized service, or any other misuse, neglect, incorporation or use of unsuitable attachments or parts. Damage to voltage regulators caused by failure to ground, shorting or overloading will not be covered under this warranty. Under this Warranty, we do not have the obligation to bear any transportation fees of any product to/from an authorized Warranty Center. Unauthorized alteration, installation or any cause other than defects in material or workmanship of the product will not be covered under the warranty.

Exclusions

Not Covered by this Limited Warranty:

- 1) Normal engine/alternator wear;
- 2) Damage caused by lack of maintenance as described in the Hyundai manuals, or negligence by using improper or impure motor oil, coolant, or fuel;
- 3) Damage caused by accidents, improper installation or storage;
- 4) Damage caused by water ingestion, submersion, or external water damage;
- 5) Damage or non-performance caused by operation of the generator set in a marine application;
- 6) Damage caused by operation with improper fuel, or at speeds, loads, conditions, or modifications contrary to published specifications.
- 7) Items not supplied by Hyundai, including, but not limited to; starting batteries, battery cables, external wiring, fuel lines, filters, etc; (refer to exclusions)
- 8) Repairs made during the warranty period, without first obtaining a case number from Hyundai

Batteries supplied with any generator product should be considered a bonus item and not covered by warranty. Batteries can be damaged by shock, shorting terminals, heat, acid spillage and a number of other factors that cannot be controlled after they have

left our facility. It is the customer's responsibility to take great care when handling a battery so no spillage of acid will occur and cause corrosion; damage caused by battery acid is not covered under this warranty.

Product Registration

Product registration is required for product support and warranty coverage.

The owner's registration found in the user manual can be completed and mailed. You can also register Online at www.hyundaipower.ca. You should keep your receipt for proof of purchase.

Warranty Claim Procedure:

Warranty service must be performed by one of our authorized service dealers. If you feel your generator is malfunctioning due to a defect or misuse, simply contact our customer support center for technical advice, a warranty claim or general information.

Do not return your generator to the place of purchase for repair.
MIDLAND INTERNATIONAL INC. SHOULD BE CONTACTED TO PROVIDE A CASE NUMBER BEFORE WARRANTY WORK CAN BEGIN.

To obtain warranty service:

Contact our customer support centre:

Toll free: 1-877-528-3772

E-mail: support@Hyundaipower.ca

Website: Hyundaipower.ca

10. GLOSSARY

AC socket- The receptacle for the device plug used for AC application

AC Circuit Protector- It protects AC circuits from being damaged due to overload or short circuit by stopping the flow of electricity between the generator and device.

Air Filter- It removes dust from engine intake air.

Carburetor- A device used to properly mix fuel and air in the correct proportions and delivering the mixture into the engine's combustion chamber.

Choke Rocker- It is used to provide proper starting mixture when the engine is cold. The choke lever must be pulled out to ON position when starting a cold engine.

DC Breaker Switch- It protects DC circuits from being damaged due to overload or short circuit by stopping the flow of electricity between the generator and device.

43.

DC socket- the receptacle used for charging a 12 V battery

Dipstick- It seals off engine oil fill hole and is used for indicating the engine oil level.

Drain Plug- A plug that can be removed to allow the fluid contents of the engine to be drained off.

ECON Switch- It is used for automatically reducing engine speed when all loads are turned off or disconnected. If high electrical loads are connected simultaneously, turn the ECON switch to OFF position to reduce voltage changes. When using the DC output, turn the ECON switch to OFF position.

ON position: To minimize fuel consumption and further reduce noise levels when no load is applied

OFF position: The ECON system does not operate

Fuel Switch- It controls flow of fuel from fuel tank to carburetor.

Ground Terminal - It connects generator to ground wire for grounding protection.

Oil Indicator light- Before the oil level falls below a safe limit, the Oil Indicator light (red) will go ON and the Oil Alert system will automatically stop the engine.

Output Indicator Light- The output indicator light (green) is illuminated when the generator is operating normally. It indicates that the generator is producing power at the receptacles

Overload Indicator Light- If the generator is overloaded, or if there is a short circuit in a connected device, the overload indicator light (red) will go ON. It will stay ON, and after about four seconds, the device will shut off and the output indicator light (green) will go OFF.

Recoil Starter- A pull cord is attached to the engine and you pull the T-handle attached to the starter cord assembly to spin the fly-wheel and start the engine.

Spark Plug- A device screwed into the combustion chamber of a spark ignition engine. The plug supplied the spark that ignites the air/fuel mixture so that combustion can occur.

Please complete and mail the form below,
or register online by visiting our website:
www.Hyundaipower.ca



Personal Information

First name: _____

Last name: _____

Address: _____

City: _____ Postal code: _____

Province: _____

Product Information

Model name: _____ 45.

Serial number: _____

Date of purchase: Y _____ M _____ D _____

Questionnaire

Store name and number: _____

Purchase price: _____

Why our generator?

Price

Ease of use

Power rating

Brand

Portability

Appearance

Questionnaire

How did you find out about us In-Store Internet Print
 Radio/TV Store flyer Word of mouth

Primary usage Recreational Emergency Tools

Primary location of usage Home Work

46.

Gender Male Female

Martial status Married Single

Date of birth Y _____ M _____ D _____

Number of people
in household

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	2	3
<input type="checkbox"/>	<input type="checkbox"/>	
4	5	other

Primary residence

<input type="checkbox"/>	<input type="checkbox"/>
Own	Rent

Education

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Partial Secondary	Full Secondary	University
<input type="checkbox"/>		
College		

Household income
(thousand)

Primary method of
purchasing items

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In-Store	Online	TV
<input type="checkbox"/>		
Mail order		

Please Mail to:

Midland International Inc.
26 Huddersfield Rd.
Unit # 2
Etobicoke, Ontario
M9W 5Z6 Canada

Online registration at:
www.Hyundaipower.ca

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